The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number:

Source:

Date Processed by STIC:

21,74/10/520,741

ENTERED



PCT

RAW SEQUENCE LISTING DATE: 04/14/2006
PATENT APPLICATION: US/10/520,741 TIME: 09:57:15

Input Set : A:\PTO.RJ.txt

Output Set: N:\CRF4\04142006\J520741.raw

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3 <110> APPLICANT: Sema ApS
             Albrechtsen, Morten
     4
     5
             Christensen, Claus
             Lukanidin, Eugene
     6
             Olesen, Ole
     9 <120> TITLE OF INVENTION: Use of compounds capable of inhibiting the proteolytic
processing of
             semaphorins for prevention, treatment, diagnosis and prognosis of an invasive
    10
     11
             disease
     13 <130> FILE REFERENCE: P682 PC00
C--> 15 <140> CURRENT APPLICATION NUMBER: US/10/520,741
C--> 16 <141> CURRENT FILING DATE: 2005-01-11
     18 <160> NUMBER OF SEQ ID NOS: 30
     20 <170> SOFTWARE: PatentIn version 3.1
     22 <210> SEQ ID NO: 1
     23 <211> LENGTH: 775
    24 <212> TYPE: PRT
     25 <213> ORGANISM: Mus sp.
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                                        25
                   20
     34
     37 Leu Arg Leu Ser His Lys Glu Leu Leu Glu Leu Asn Arg Thr Ser Ile
               35
    38
     41 Phe Gln Ser Pro Leu Gly Phe Leu Asp Leu His Thr Met Leu Leu Asp
     42
     45 Glu Tyr Gln Glu Arg Leu Phe Val Gly Gly Arg Asp Leu Val Tyr Ser
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     49 Leu Asn Leu Glu Arg Val Ser Asp Gly Tyr Arg Glu Ile Tyr Trp Pro
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     53 Ser Thr Ala Val Lys Val Glu Glu Cys Ile Met Lys Gly Lys Asp Ala
                   100
                                        105
     57 Asn Glu Cys Ala Asn Tyr Ile Arg Val Leu His His Tyr Asn Arg Thr
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     61 His Leu Leu Thr Cys Ala Thr Gly Ala Phe Asp Pro His Cys Ala Phe
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                                                    140
     65 Ile Arg Val Gly His His Ser Glu Glu Pro Leu Phe His Leu Glu Ser
     66 145
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                                                155
     69 His Arg Ser Glu Arg Gly Arg Gly Arg Cys Pro Phe Asp Pro Asn Ser
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                                            170
     73 Ser Phe Val Ser Thr Leu Val Gly Asn Glu Leu Phe Ala Gly Leu Tyr
                   180
                                        185
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77 Ser Asp Tyr Trp Gly Arg Asp Ser Ala Ile Phe Arg Ser Met Gly Lys

DATE: 04/14/2006

PATENT APPLICATION: US/10/520,741

TIME: 09:57:15

Input Set : A:\PTO.RJ.txt
Output Set: N:\CRF4\04142006\J520741.raw

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81 Leu Gly	His Ile	Arg Thr	Glu His	Asp A	Asp Glu	Arg	Leu	Leu I	ys (Glu
82 210			215	*		220				
85 Pro Lys	Phe Val	Gly Ser	Tyr Met	Ile I	Pro Asp	Asn	Glu .	Asp A	Arg .	Asp
86 225		230			235					240
89 Asp Asn	Lys Met	Tyr Phe	Phe Phe	Thr (Glu Lys	Ala	Leu	Glu <i>P</i>	Ala (Glu
90	•	245		:	250			2	255	
93 Asn Asn	Ala His	Thr Ile	Tyr Thr	Arg V	Val Gly	Arg	Leu	Cys V	/al .	Asn
94	260			265				270		
97 Asp Met	Gly Gly	Gln Arg	Ile Leu	Val 1	Asn Lys	Trp	Ser	Thr. I	?he	Leu
	275		280				285			
101 Lys Ala	Arg Leu	ı Val Cy	s Ser Va	l Pro	Gly Met	Asn	Gly	Ile	Asp	Thr
102 290			295			300				
105 Tyr Phe	Asp Glu	Leu Gl	u Asp Va	l Phe	Leu Lei	ı Pro	Thr	Arg	Asp	Pro
106 305		31			319				_	320
109 Lys Asn	Pro Val		e Gly Le	u Phe		r.Thr	Ser	Asn		Phe
110		325			330			_	335	
113 Arg Gly		-	s Val Ty		Met Se	r Ser	Ile		Glu	Ala
114	340			345			_	350	_	_
117 Phe Asn		Tyr Al			Gly Pro	o GIU			Trp	Ser
118	355		36		3 B		365		n 1 -	0
121 Leu Tyr	GIU GIY	/ Lys va		r Pro	Arg Pro			Cys	Ala	ser
122 370	3 an 'Cl.		375	The	The Inc	380		Dro	7.00	A cn
125 Lys Val 126 385	ASII GIY	39 GIY LY		y IIII	39:		, lyr	PIO	ASP	400
120 303 129 Ala Ile	Ara Dhe		_	n Pro			· Gln	Pro	Tle	
130	Arg File	405	g IIC AS	p rio	410		GIII	110	415	Dys
133 Pro Val	His Lvs		o Tle Le	u Val		r Asr	Glv	Lvs		Asn
134	420	-	0 110 20	425	-			430	- , -	
137 Leu Arg			l Asp Ar			a Glu	asA	Glv	Gln	Tvr
138	435		44	-			445	-		•
141 Asp Val	Leu Phe	e Ile Gl	y Thr As	p Thr	Gly Ile	e Val	Leu	Lys	Val	Ile
142 450		•	455	-	-	460		_		
145 Thr Ile	Tyr Asr	ı Gln Gl	u Thr Gl	u Trp	Met Gl	ı Glu	Val	Ile	Leu	Glu
146 465		47	0		47	5				480
149 Glu Leu	Gln Ile	Phe Ly	s Asp Pr	o Ala	Pro Ile	e Ile	Ser	Met	Glu	Ile
150 .		485			490				495	
153 Ser Ser	Lys Arg	g Gln Gl:	n Leu Ty	r Ile	Gly Se	r Ala	Ser	Ala	Val	Ala
154	500),		505				510		
157 Gln Val	_	His Hi	-	_	Tyr Gly	y Ser		Cys	Ala	Asp
158	515		52		_		525	_	_	_
161 Cys Cys	Leu Ala	Arg As		r Cys	Ala Tr			Ile	Ser	Cys
162 530		,	535			540		_,	_	_
165 Ser Arg	Tyr Tyr		_	a His			Arg	Pne	Arg	
166 545	**-1 *	55	-		55!	_	. m.	~ 1	~ 1-	560
169 Gln Asp	val Arg		y Asn Al	a Ala		ı Cys	rne	GIÅ		GIN
170	Clu Ac-	565	11 Nam 2-	a mb	570	, n		- ו ת	575	C1
173 Phe Val 174			u ASP AI	-		1 WIG	ьeu		ıyr	GIA
1/4	580	,	÷	585				590		

PATENT APPLICATION: US/10/520,741

DATE: 04/14/2006 TIME: 09:57:15

Input Set : A:\PTO.RJ.txt

Output Set: N:\CRF4\04142006\J520741.raw

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177 Ile Glu Ser Asn Ser Thr Leu Leu Glu Cys Thr Pro Arq Ser Leu Gln
178
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                                600
181 Ala Lys Val Ile Trp Phe Tyr Gln Lys Gly Arg Asp Val Arg Lys Glu
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                            615
182
                                                620
185 Glu Val Lys Thr Asp Asp Arg Val Val Lys Met Asp Leu Gly Leu Leu
186 625
                        630
                                            635
189 Phe Leu Arg Val Arg Lys Ser Asp Ala Gly Thr Tyr Phe Cys Gln Thr
190
                    645
                                        650
193 Val Glu His Asn Phe Val His Thr Val Arg Lys Ile Thr Leu Glu Val
194
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                                    665
197 Val Glu Glu His Lys Val Glu Gly Met Phe His Lys Asp His Glu Glu
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201 Glu Arg His His Lys Met Pro Cys Pro Pro Leu Ser Gly Met Ser Gln
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                            695
205 Gly Thr Lys Pro Trp Tyr Lys Glu Phe Leu Gln Leu Ile Gly Tyr Ser
                        710
                                            715
209 Asn Phe Gln Arq Val Glu Glu Tyr Cys Glu Lys Val Trp Cys Thr Asp
                    725
                                        730
213 Lys Lys Arg Lys Lys Leu Lys Met Ser Pro Ser Lys Trp Lys Tyr Ala
                740
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221 Pro Arg His Thr Leu Leu Ser
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225 <210> SEQ ID NO: 2
226 <211> LENGTH: 775
227 <212> TYPE: PRT
228 <213 > ORGANISM: Mus sp.
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236 Leu Glu Leu Trp Thr Gly Gly His Thr Ala Asp Thr Thr His Pro Arg
240 Leu Arg Leu Ser His Lys Glu Leu Leu Asn Leu Asn Arg Thr Ser Ile
                                40
244 Phe His Ser Pro Phe Gly Phe Leu Asp Leu His Thr Met Leu Leu Asp
248 Glu Tyr Gln Glu Arg Leu Phe Val Gly Gly Arg Asp Leu Val Tyr Ser
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                                            75
252 Leu Ser Leu Glu Arg Ile Ser Asp Gly Tyr Lys Glu Ile His Trp Pro
                    85
                                        90
256 Ser Thr Ala Leu Lys Met Glu Clu Cys Ile Met Lys Gly Lys Asp Ala
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                                    105
260 Gly Glu Cys Ala Asn Tyr Val Arg Val Leu His His Tyr Asn Arg Thr
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                               120
                                                    125
264 His Leu Leu Thr Cys Gly Thr Gly Ala Phe Asp Pro Val Cys Ala Phe
265 130
                           135
                                                140
268 Ile Arg Val Gly Tyr His Leu Glu Asp Pro Leu Phe His Leu Glu Ser
269 145
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PATENT APPLICATION: US/10/520,741

DATE: 04/14/2006 TIME: 09:57:15

Input Set : A:\PTO.RJ.txt

Output Set: N:\CRF4\04142006\J520741.raw

272 Pro Arg Ser Glu Arg Gly Arg Gly Arg Cys Pro Phe Asp Pro Ser Ser 276 Ser Phe Ile Ser Thr Leu Ile Gly Ser Glu Leu Phe Ala Gly Leu Tyr 280 Ser Asp Tyr Trp Ser Arg Asp Ala Ala Ile Phe Arg Ser Met Gly Arg 284 Leu Ala His Ile Arg Thr Glu His Asp Asp Glu Arg Leu Leu Lys Glu 288 Pro Lys Phe Val Gly Ser Tyr Met Ile Pro Asp Asn Glu Asp Arg Asp 289 225 292 Asp Asn Lys Val Tyr Phe Phe Phe Thr Glu Lys Ala Leu Glu Ala Glu 296 Asn Asn Ala His Ala Ile Tyr Thr Arg Val Gly Arg Leu Cys Val Asn 300 Asp Val Gly Gly Gln Arg Ile Leu Val Asn Lys Trp Ser Thr Phe Leu 304 Lys Ala Arg Leu Val Cys Ser Val Pro Gly Met Asn Gly Ile Asp Thr 308 Tyr Phe Asp Glu Leu Glu Asp Val Phe Leu Leu Pro Thr Arg Asp His 309 305 312 Lys Asn Pro Val Ile Phe Gly Leu Phe Asn Thr Thr Ser Asn Ile Phe 316 Arg Gly His Ala Ile Cys Val Tyr His Met Ser Ser Ile Arg Ala Ala 320 Phe Asn Gly Pro Tyr Ala His Lys Glu Gly Pro Glu Tyr His Trp Ser 324 Val Tyr Glu Gly Lys Val Pro Tyr Pro Arg Pro Gly Ser Cys Ala Ser 328 Lys Val Asn Gly Gly Arg Tyr Gly Thr Thr Lys Asp Tyr Pro Asp Asp 329 385 332 Ala Ile Arg Phe Ala Arg Ser His Pro Leu Met Tyr Gln Ala Ile Lys 336 Pro Ala His Lys Lys Pro Ile Leu Val Lys Thr Asp Gly Lys Tyr Asn 340 Leu Lys Gln Ile Ala Val Asp Arg Val Glu Ala Glu Asp Gly Gln Tyr 344 Asp Val Leu Phe Ile Gly Thr Asp Asn Gly Ile Val Leu Lys Val Ile 348 Thr Ile Tyr Asn Gln Glu Met Glu Ser Met Glu Glu Val Ile Leu Glu 352 Glu Leu Gln Ile Phe Lys Asp Pro Val Pro Ile Ile Ser Met Glu Ile 356 Ser Ser Lys Arg Gln Gln Leu Tyr Ile Gly Ser Ala Ser Ala Val Ala 360 Gln Val Arg Phe His His Cys Asp Met Tyr Gly Ser Ala Cys Ala Asp 364 Cys Cys Leu Ala Arg Asp Pro Tyr Cys Ala Trp Asp Gly Ile Ser Cys 368 Ser Arg Tyr Tyr Pro Thr Gly Thr His Ala Lys Arg Arg Phe Arg Arg

RAW SEQUENCE LISTING DATE: 04/14/2006 PATENT APPLICATION: US/10/520,741 TIME: 09:57:15

Input Set : A:\PTO.RJ.txt

Output Set: N:\CRF4\04142006\J520741.raw

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369 545
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372 Gln Asp Val Arg His Gly Asn Ala Ala Gln Gln Cys Phe Gly Gln Gln
                    565
                                        570
376 Phe Val Gly Asp Ala Leu Asp Lys Thr Glu Glu His Leu Ala Tyr Gly
                580
                                    585
377
380 Ile Glu Asn Asn Ser Thr Leu Leu Glu Cys Thr Pro Arg Ser Leu Gln
           595
                                600
381
                                                    605
384 Ala Lys Val Ile Trp Phe Val Gln Lys Gly Arg Glu Thr Arg Lys Glu
385
        610
                            615
                                                620
388 Glu Val Lys Thr Asp Asp Arg Val Val Lys Met Asp Leu Gly Leu Leu
389 625
                        630
                                            635
392 Phe Leu Arg Leu His Lys Ser Asp Ala Gly Thr Tyr Phe Cys Gln Thr
                                        650
                    645
396 Val Glu His Ser Phe Val His Thr Val Arg Lys Ile Thr Leu Glu Val
397
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                                    665
400 Val Glu Glu Lys Val Glu Asp Met Phe Asn Lys Asp Asp Glu Glu
           675
                                680
404 Asp Arq His His Arq Met Pro Cys Pro Ala Gln Ser Ser Ile Ser Gln
       690
                            695
408 Gly Ala Lys Pro Trp Tyr Lys Glu Phe Leu Gln Leu Ile Gly Tyr Ser
                        710
                                            715
                                                                720
412 Asn Phe Gln Arg Val Glu Glu Tyr Cys Glu Lys Val Trp Cys Thr Asp
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                                        730
416 Arg Lys Arg Lys Lys Leu Lys Met Ser Pro Ser Lys Trp Lys Tyr Ala
417
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428 <210> SEQ ID NO: 3
429 <211> LENGTH: 560
430 <212> TYPE: PRT
431 <213> ORGANISM: Mus sp.
433 <400> SEQUENCE: 3
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439 Leu Glu Leu Trp Thr Pro Gly His Ser Ala Asn Pro Ser Tyr Pro Arg
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                                    25
443 Leu Arg Leu Ser His Lys Glu Leu Leu Glu Leu Asn Arg Thr Ser Ile
                                40
447 Phe Gln Ser Pro Leu Gly Phe Leu Asp Leu His Thr Met Leu Leu Asp
                            55
                                                60
451 Glu Tyr Gln Glu Arg Leu Phe Val Gly Gly Arg Asp Leu Val Tyr Ser
                        70
                                            75
455 Leu Asn Leu Glu Arg Val Ser Asp Gly Tyr Arg Glu Ile Tyr Trp Pro
                    85
                                        90
459 Ser Thr Ala Val Lys Val Glu Clu Cys Ile Met Lys Gly Lys Asp Ala
               100
                                    105
463 Asn Glu Cys Ala Asn Tyr Ile Arg Val Leu His His Tyr Asn Arg Thr
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VERIFICATION SUMMARY

PATENT APPLICATION: US/10/520,741

DATE: 04/14/2006

TIME: 09:57:16

Input Set : A:\PTO.RJ.txt

Output Set: N:\CRF4\04142006\J520741.raw

L:15 M:270 C: Current Application Number differs, Replaced Current Application Number

L:16 M:271 C: Current Filing Date differs, Replaced Current Filing Date